**Module 1 Assessment**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

1. A game has green and blue pieces. The ratio of green game pieces to total pieces is 5:12.

Select **all** the statements that are correct about the game pieces.

A. The ratio of green pieces to blue pieces is 7:5.

B. The ratio of total pieces to blue pieces is 12:7.

C. There must be 7 more blue pieces than green pieces.

D. The ratio of total pieces to green pieces is 12:5.

1. Carl can type 180 words in 2 minutes. How many words can Carl type in 1 minute? How many words can Carl types in 5 minutes at this rate?

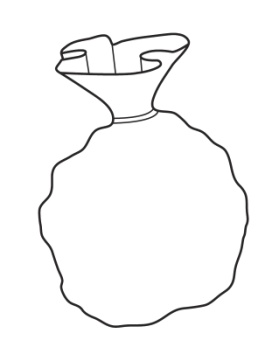
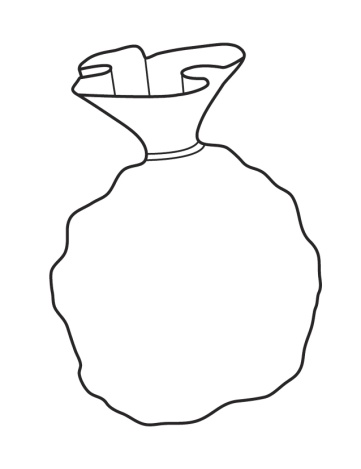
Carl can type \_\_\_\_ words in 1 minute and \_\_\_\_\_ words in 5 minutes.

1. Victoria is shopping for thank-you notes at Sweet Greetings. She is trying to decide between the three different packages of notes shown below.

|  |  |
| --- | --- |
| Package 1 | 30 notes for $12.00 |
| Package 2 | 6 notes for $3.00 |
| Package 3 | 8 notes for $6.00 |

If Victoria is looking for the best deal, which package of thank-you notes should she buy?

1. Either Package 1 or Package 2.
2. Package 3
3. Package 2
4. Package 1
5. Adam is a team leader for a packing and moving company. Today, his team packed 105 boxes in 5 hours. What was his team's packing rate, in boxes per hour?
6. 24 boxes per hour
7. 21 boxes per hour
8. 23 boxes per hour
9. 22 boxes per hour
10. Allisa hopes to play beach volleyball in the Olympics someday. She has convinced her parents to allow her to set up a beach volleyball court in their back yard. A standard beach volleyball court is approximately 26 feet by 52 feet. She figures that she will need the sand to be one foot deep. She goes to the hardware store to shop for sand and sees the following signs on pallets containing bags of sand.

Brand A Brand B

60 lbs

$5

150 lbs

$12

1. What is the rate that **Brand A** is selling for? Give the rate (be sure to label) and the unit rate.

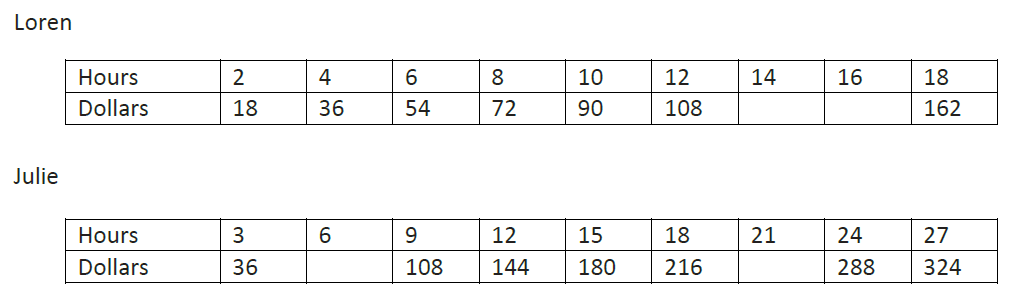
The rate is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The unit rate is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which brand is offering the better value? Explain your answer.

Brand \_\_\_ is the better value. I know this because…

1. Loren and Julie have different part time jobs after school. They are both paid at a constant rate of dollars per hour. The tables below show Loren and Julie’s total income (amount earned) for working a given amount of time.



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  | |  | |  |  |  | |  | |  | |  |
|  | |  | |  | |  | |  | |  | |  | |  | |

a. Fill in the missing values in the two tables above.

b. Who makes more per hour? Justify your answer.

c. Write how much Julie makes as a unit rate.

d. How much money would Julie earn for working 16 hours?

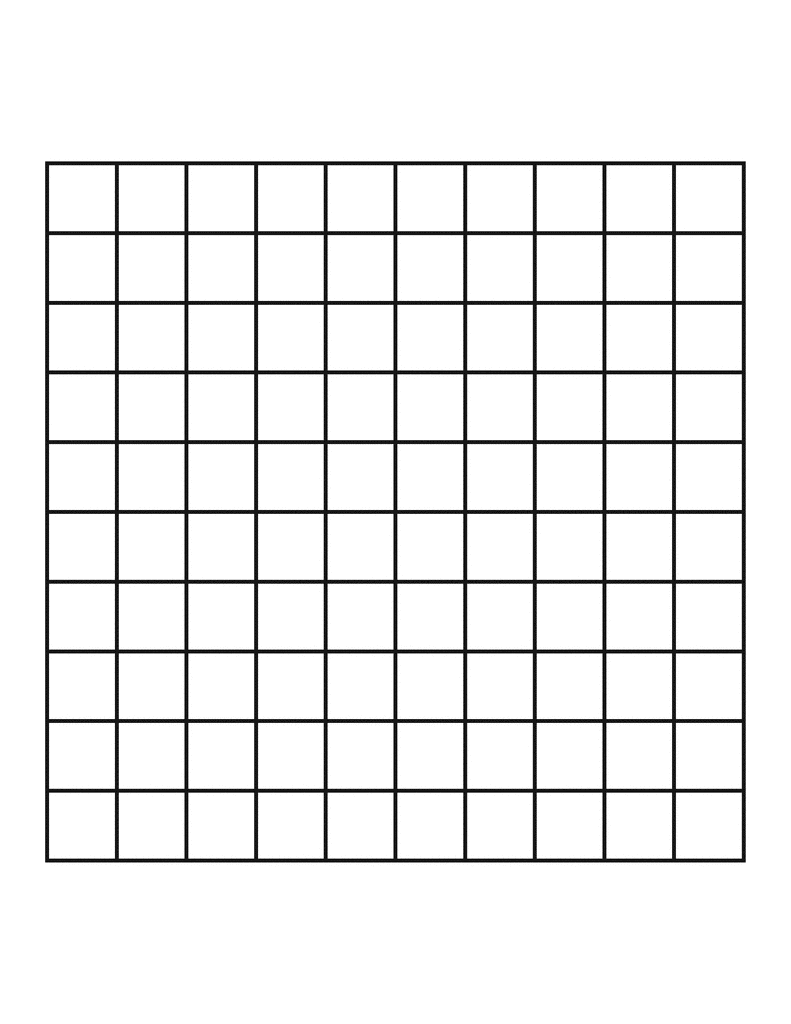
e. What is the ratio between how much Loren makes per hour and how much Julie makes per hour?

f. Julie works hours/dollar. Write a one or two-sentence explanation of what this rate means. Use this rate to find how long it takes for Julie to earn $228.

1. The table shows a relationship between the number of tennis balls that fit into a given number of cans. Fill in the missing value in the table.

|  |  |
| --- | --- |
| Cans | Balls |
| 2 | 6 |
|  | 15 |
| 7 | 21 |
| 9 | 27 |

Now plot the coordinate pairs on the graph. Draw a straight line to connect them.

Tennis Balls

Balls

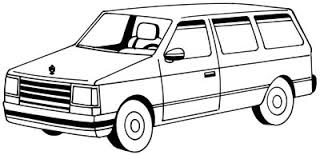
Cans

1. Select the value that will complete this expression for converting 10 yards to inches.

\_\_\_\_\_\_ = 360 inches

Bonus/Challenge

To Grandmother’s House We Go ~ Comparison Driving

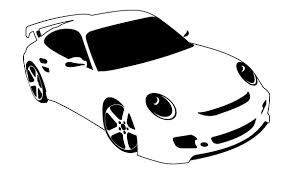
Your mother takes you to your grandparents’ house for dinner. She drives 60 minutes at a constant speed of 40 miles per hour. She reaches the highway and quickly speeds up and drives for another 30 minutes at a constant speed of 70 miles per hour. You may use a calculator for the following questions.

1. How far did you and your mother travel all together?

We traveled \_\_\_\_\_ miles all together.

1. How long did the trip take?

The trip took \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_all together.

1.  Your older brother drove to your grandparents’ house in a different car, but left from the exact same location at the same time. If he traveled at a constant speed of 60 miles per hour, explain why he would reach your grandparents’ house first. Use a ratio table, double number line, equation, or graph to show your work.

MLSD power standards

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Standard | Covered in questions | Worth | Must earn to pass standard | Points earned | Pass Standard? |
| 6.rp.2 | 2 and 5a | 4 points | 3 out of 4 points |  |  |
| 6.rp.3a | 6a,6b,6e, 7 | 7 points | 5 out of 7 points |  |  |
| 6.rp.3b | 3,4,5b | 4 points | 3 out of 4 points |  |  |

Test Specs…

Students can use a calculator. Bonus question score will be kept separate from class data. 17 of 21 points are MLSD power standards

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | DOK | Standard  (\*Power Standard) | Source | Point Value |
| 1 | 1 | 6.rp.1 | SBAC | 2 |
| 2 | 2 | 6.rp.2\* | SBAC | 2 |
| 3 | 2 | 6.rp.3b\* | EOC | 1 |
| 4 | 1 | 6.rp.3b\* | EOC | 1 |
| 5a | 2 | 6.rp.2\* | Engage | 2 |
| 5b | 3 | 6.rp.3b | Engage | 2 |
| 6 | 3 | 6.rp.1  6.rp.2\*  6.rp.3a\*  6.rp.3b\* | Engage | 8 |
| 7 | 1, 2 | 6.rp.3a\* | SBAC | 2 |
| 8 | 2 | 6.rp.3d | SBAC | 1 |
| Bonus/Challenge | 3 | 6.rp.3b\* | Engage | 3 |